Docket No. 506845.6

Inventor: DOMAZAKIS, Emmanouil

REMARKS/ARGUMENTS

Applicant has filed this Preliminary Amendment and Request for Continued Examination

in response to the Final Office Action dated July 7, 2010. Claims 1-4 are pending for

prosecution. Claims 1 and 3 are independent. Claims 1 and 3 have been amended. Applicant

respectfully requests the withdrawal of all outstanding rejections and objections and the

allowance of all pending claims.

I. 35 U.S.C. § 112 Rejections

Examiner has rejected claims 1 and 3 under 35 U.S.C. §112 first and second paragraphs.

Applicant has amended claims 1 and 3 per the Examiner's suggestions. Although, the feature

being deleted is an inherent feature. Salt soluble meat proteins (SSMPs) naturally contained in

the meat tissue exhibit strong emulsifying activity. They are extracted by the use of salt.

Comminution will increase the available amounts of SSMPs. Therefore, a fat phase (e.g. olive

oil) may be emulsified in a comminuted meat-based system by the function of the SSMPs. The

presence and function of SSMPs are known to a person of ordinary skills in the field of meat

technology and is an inherent feature.

The claim amendments made in claims 1 and 3 are sufficiently supported in the

specification at paragraphs [0016], [0018] and [0026].

II. 35 U.S.C. § 103 Rejections

A. Obviousness

When determining the question of obviousness, underlying factual questions are

presented which include (1) the scope and content of the prior art; (2) the level of ordinary skill

in the art at the time of the invention; (3) objective evidence of nonobviousness; and (4) the

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differences between the prior art and the claimed subject matter. Graham v. John Deere Co., 383 U.S. 1, 17-18, 148 USPQ 459, 467 (1966). Moreover, with regard to the last prong of the *Graham* inquiry, "[t]o determine whether there was an apparent reason to combine the known elements in the way a patent claims, it will often be necessary to look to interrelated teachings of multiple patents; to the effects of demands known to the design community or present in the marketplace; and to the background knowledge possessed by a person having ordinary skill in the art. To facilitate review, this analysis should be made explicit." KSR International v. Teleflex Inc., 127 U.S. 1727 (2007).

The person of ordinary skill in the art is a hypothetical person who is presumed to know the relevant prior art. Custom Accessories, Inc. v. Jeffrey-Allan Indus., Inc., 807 F.2d 955, 962, 1 USPQ2d 1196, 1201 (Fed. Cir. 1986). The level of ordinary skill in the art in this area may be determined by looking to the references of record. In re GPAC, Inc., 57 F.3d 1573, 35 USPQ2d 1116 (Fed. Cir. 1995). The references of record in this case reveal that a moderately high level of sophistication in is present in the subject area of the subject area of the instant application. Thus, Applicants submit that, as substantiated by the cited references, those with at least a bachelor's degree in chemistry or the like would most likely be a person with ordinary skill in this field of endeavor.

With respect to objective evidence of non-obviousness, the Applicant submits that the record supports the conclusion that there are long-felt but unsolved needs met by the present invention. For at least this reason the Applicant respectfully submits that the claimed invention is not obvious in view of the cited references.

Finally, prima facie obviousness requires that there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of

ordinary skill in the art, to modify the references. This motivation-suggestion-teaching test informs the *Graham* analysis. "To reach a non-hindsight driven conclusion as to whether a person having ordinary skill in the art at the time of the invention would have viewed the subject matter as a whole to have been obvious in view of multiple references," there must be "some rationale, articulation, or reasoned basis to explain why the conclusion of obviousness is correct." In re Kahn, (Fed. Cir. 2006). The *KSR International* decision by the Supreme Court has not eliminated the motivation-suggestion-teaching test to determine whether prior art references have been properly combined. Rather, in addition to the motivation-suggestion-teaching test, the Court discussed that combinations of known technology that are "expected" may not be patentable. Stated in the affirmative, therefore, combinations are non-obvious and patentable if unexpected. In the present application, no single prior art reference nor any combination thereof (legitimate or otherwise) meets the claimed limitations of the Applicant's invention.

B. Rejections of Claims 1-4

Claims 1-2 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Bloukas (Meat Science Vol. 5, No. 2, 133-144 1997) in view of the combination of McKee (U.S. Pat. No. 2,060,422) and Domazakis (WO 02/065860). Claims 3-4 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Bloukas (Meat Science Vol. 5, No. 2, 133-144 1997), McKee (U.S. Pat. No. 2,060,422), and Domazakis (WO 02/065860), further in view of Gryczka et al. (U.S. Pat. No. 4,147,807). For the following reasons, Applicant respectfully requests reconsideration and withdrawal of this rejection.

First, the Examiner asserts that Applicant does not provide details to support its allegation that Bloukas discourages the practice of direct oil addition. According to Bloukas at page 143,

direct oil addition leads to products with undesirable characteristics. Bloukas states that "[t]he direct incorporation of olive oil results in fermented sausages with an unacceptable appearance and very soft texture." Claims 1 and 3 clearly claim in step (b) the limitation of liquid olive oil being directly added to the meat mixture. The addition of olive oil increases the stability of the preparation of the meat products as claimed in claims 1 and 3 and is supported in paragraphs [0018] and [0026] of the specification of the present invention. Bloukas clearly teaches away from this claimed limitation.

Second, the Examiner asserts that Bloukas teaches the addition of salt of the beginning of the chopping/mixing process. However, Bloukas specifically teaches that "the frozen beef and pork meat were cut . . . at low speed and mixed with other ingredients, except sodium chloride." (See page 135, lines 15-17). Therefore, salt is added at a later stage unlike the present invention where salt is added in the first step, step (a), of the claimed method in claims 1 and 3 of the present invention.

Domazakis teaches a distinct and different category of meat-based products. Moreover, the combination of McKee with Bloukas does not lead one skilled in the art person to the subject matter of claims 1-4. As discussed above, Bloukas teaches the incorporation of oil in fermented sausages, but clearly discourages the practice of direct oil addition, as it leads to products with undesirable characteristics. In addition, neither Bloukas, nor McKee teach the addition of sodium chloride at the beginning of the mixing/chopping process, during the preparation of a meat paste suited for fermented dry and semi-dry sausages. The Examiner asserts that the Applicant does not claim this limitation; however, step (a) in claims 1 and 3 clearly claim the addition of salt in this beginning step which is also prior to any olive oil being added. Moreover, due to irrelevancy of the McKee reference (as discussed hereinbelow), a person of ordinary skill

would not to combine the Domazakis, Bloukas and McKee concerning the preparation of dry or semi-dry sausages.

Even if the average skilled person would have ignored the fact that Domazakis refers to a completely different category of meat-based products and would choose to combine certain features from the McKee with the Bloukas, he would not have arrived at the subject matter of the under examination patent, since none of the references give any hint to the average skilled person with regard to the optimum temperature for olive oil addition (i.e. -2°C), which is an essential prerequisite for the preparation of olive oil containing fermented sausages. It should be noted that McKee teaches the processing of meat at a temperature ranging from 25-35F (i.e. -3.8 to 0°C), while no information is given regarding the optimal conditions of olive oil mixing into the meat preparation for the making of products of this category.

Even if one combines the teachings of the referenced prior art, one skilled in art would not produce the product of the present application. In combining the teachings of the referenced art, one would add the olive oil prior to the addition of sodium chloride (or salt) as a component of a pre-emulsion rather than adding the olive oil after the salt is added as claimed in claims 1 and 3 of the present application.

The Examiner asserts that the McKee reference is analogous art because it makes "sausage products from meat." That is an extremely broad categorization. The method taught by McKee is for the development of a lighter brighter color to fresh meat. This is accomplished, as claimed, by quick freezing the fresh meat, then subjecting it to mechanical pressure while in a frozen condition. McKee does not teach any methods for the preparation of fermented dry and semi-dry sausages. McKee also does not teach the incorporation of olive oil incorporation in

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such products as claimed in claims 1 and 3 of the present application. The entire treatment of

fresh meat, as taught by McKee, i.e. grinding or comminuting or processing the meat, at a

temperature at or below freezing, is carried out only to retain the desirable meat color and no

side-effects are indicated regarding the stability of the resulting meat-paste, when oil in liquid

form is incorporated therein as claimed in claims 1 and 3. Therefore, we consider this reference

as irrelevant and not able to be combined with any other reference to try and show obviousness.

The Examiner asserts that each reference may not be attacked individually; however, if a

reference is not relevant or is non-analogous art, as is the case with McKee, it is not able to be

used in combination with other references.

Regarding the effect of fast freezing on the color of the meat, the Applicant notes that

rather the composition of the atmosphere wherein the meat is stored, determines the color of the

meat and the nature of spoilage it develops. The importance of the quick freezing lies on the

prevention of large ice crystals, which are normally formed outside the muscle fibers in slow

freezing.

In specific response to point (C) from the Examiner's communication of 12/24/2009,

Domazakis describes the process of preparing meat emulsion-based products, as follows: "Thin-

chopped non-fat meat of temperature 0°C is mixed with H₂0 of temperature - 2°C.....When the

temperature of the mixture is 2°C, we insert the olive oil.....The mixture continues until the

temperature is 4°C". Therefore, the critical temperatures for the ingredients disclosed in

Domazakis for meat, water and oil, in the case of emulsion-type meat products differ from what

was considered in Examiner's report, i.e. meat is at the temperature of -4°C, instead of -2 °C.

When the present application and Domazakis are compared it is evident that the critical

temperature for oil addition differs by 4 degrees C.

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Moreover, according to Domazakis, the olive oil containing emulsion-type meat based products described therein are prepared by initially mixing finely chopped meat with water, salt, polyphosphoric salts, preservatives, vegetable proteins, milk proteins and starch in an appropriate mixing apparatus and subsequently mixing with olive oil, thereby preparing a finely comminuted meat emulsion with an end temperature of 4°C, which is filled in casings and subjected to a heat treatment at 72°C. Domazakis alone or in combination with the other prior art neither teaches on skilled in the art something about the preparation of fermented sausages, nor about the way of incorporating olive oil in a meat mass suited for the preparation of fermented sausages. None of the prior art, including Domazakis, uses olive oil as a stabilizer as claimed in claims 1 and 3 of the present application. The chemical and physical characteristics of the fermented sausages are substantially different to the cooked emulsion-type meat products. Domazakis does not teach its process or method for the use with fermented sausages. It is not even possible to combine the elements of the prior art references together due to the varying products disclosed in the cited prior art references. It would not occur to one skilled in the art to combine these references.

The Examiner asserts that the temperatures disclosed in the prior art references are the same as claimed in the present application; however, as discussed above that is inaccurate. With regards to the temperature profile of the method disclosed in the present application, Bloukas and McKee are silent with regard to the use of the temperature - 2°C, as optimum for the addition and stable incorporation of oil in a meat paste, suited for fermented dry and semi-dry sausages as claimed in the claims 1 and 3 of the present application. The temperature profile claimed in the present application serves for the stability of the meat products.

In conclusion, even if a person skilled in the art would have ignored the fact that Domazakis refers to a completely different category of meat-based products and would choose to

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combine certain features from McKee and Bloukas, such a person would not have arrived at the

subject matter of the present application since none of the references disclose the optimum

temperature for olive oil addition (i.e. -2°C) as claimed in claims 1 and 3. This is a critical

limitation for the preparation of olive oil containing fermented sausages. Moreover, upon

reading the cited prior art references one would think to add olive oil prior to the addition of

sodium chloride, as a component of a pre-emulsion, as taught by Bloukas, rather than adding salt

first and then adding olive oil.

Applicant therefore respectfully submits that neither Bloukas nor McKee nor Domazakis

nor any legitimate combination thereof teach or suggest all of the limitations of claims 1-4.

III. Conclusion

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Applicant's request for extension of time under 37 CFR 1.136(a) as well as Applicant's

petition fee are enclosed herewith and filed simultaneously with this response. Applicant

respectfully submits the claims and the application are in condition for allowance and such is

courteously solicited. If any issue regarding the allowability of any of the pending claims in the

present application could be readily resolved, or if other action could be taken to further advance

this application such as an Examiner's amendment, or if the Examiner should have any questions

regarding the present amendment, it is respectfully requested that the Examiner please telephone

Applicant's undersigned attorney in this regard.

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Should any fees be necessitated by this response, the Commissioner is hereby authorized to deduct such fees from Deposit Account No. 11-0160.

Respectfully, submitted,

Date: 7 11

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